MOLYKOTE® BG 555 Low Noise Grease

Long-performance-life, wide-temperature-range, low-noise grease

Features

- Wide service-temperature range
- Long-performance grease
- Excellent low-temperature properties
- Anti-rust properties
- Noise-suppressing properties
- No intentional polytetrafluoroethylene (PTFE) or other per- and polyfluoroalkyl substances (PFAS)

Benefits

Performance life at elevated temperatures

Performance life of MOLYKOTE® BG 555 Grease lasts several times longer than those of other wide- temperature range roller bearing greases available in the market. (See Figure 1.)

MOLYKOTE® BG 555 Grease is suitable for use in bearings at elevated temperatures for long periods.

Moreover, in general conditions, MOLYKOTE® BG 555 Grease can largely extend the intervals of grease repacking or bearing replacement.

Noise-suppressant properties

Impurities are removed from the main raw materials of MOLYKOTE® BG 555 Grease. The additives are strictly selected and base oil having appropriate viscosity is used.

In addition, MOLYKOTE® BG 555 Grease is manufactured by a special process in a dust-free factory.

Therefore MOLYKOTE® BG 555 Grease can achieve quieter bearing performances.

Low-temperature properties

MOLYKOTE® BG 555 Grease is made from excellent synthetic lubricating oils and designed so that the structure causes the least internal resistance. (See Figure 2.)

Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE® sales representative prior to writing specifications on this product.

Standard[1]	Test	Unit	Result
	Color		Light straw
Consistency, density, viscosity			
ASTM D217	Worked penetration	mm/10	255
FTM 791C-313	Working stability	mm/10	315
ASTM 445	Base oil kinematic viscosity at 40°C (104°F)	mm^2/s	26.0
Temperature			
	Service temperature range	°C	-40 to +150
		°F	-40 to +302
ASTM D566	Dropping point	°C	195
		°F	383
ASTM D1478-63	Low-temperature torque at -40°C (-40°F)		
	Starting torque	N.cm	15
	Running torque	N.cm	3.0
Resistance			
ASTM D1264	Water washout, 1 hour at 38°C (100.4°F)	mass %	1.3
Load-carrying capacity, wear protection, service life			
ASTM D1741	Life performance, 125°C (257°F)	hour	4,000
Speed			
	DN value[2]	mm/min	1,300,000

[1]FTMS: Federal Test Method Standard. ASTM: American Society for Testing and Materials.

[2]DN values are calculated approximations and will vary widely with temperature, load and bearing type.

Continued on next page

Typical properties (continued)

Standard[1]	Test	Unit	Result
Oil separation, evaporation, oxidation stability			
ASTM D972	Evaporation loss, 22 hours at 99°C (210.2°F)	mass %	0.30
FTM 791C-321 Mod	Oil separation, 24 hours at 100°C (212°F)	mass %	1.0
ASTM D942	Oxidation stability	kPa	2.5
Corrosion protection			
ASTM D4048	Copper strip corrosion, 24 hours at 100°C (212°F)		1a
ASTM D1743-73	Corrosion preventive properties, 48 hours at 52°C (125.6°F)		1
DIN 51 802	SKF-Emcor method		
	Degree of corrosion		0-0
Low-noise performance			
FAG MGG-11	Low-noise performance test	class	II/1

[1]FTMS: Federal Test Method Standard. ASTM: American Society for Testing and Materials.

MOLYKOTE® BG 555 Grease can be used as low as -40°C (-40°F), thereby easing cold starting of precision machines and small size motors.

Anti-rust properties

MOLYKOTE® BG 555 Grease with its reinforced anti-rust properties is excellent not only for general humidity, but also for very severe conditions. As a result, MOLYKOTE® BG 555 Grease can solve problems such as rusting of automotive electric equipment in the presence of saltwater or rusting of electric motors under varnish conditions.

Applications

MOLYKOTE® BG 555 Low Noise Grease is suitable for use in bearings at elevated temperatures for long periods. MOLYKOTE® BG 555 Grease can largely extend the intervals of grease repacking or bearing replacement.

Handling precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Figure 1: Life performance at 125°C (257°F), ASTM D1741.

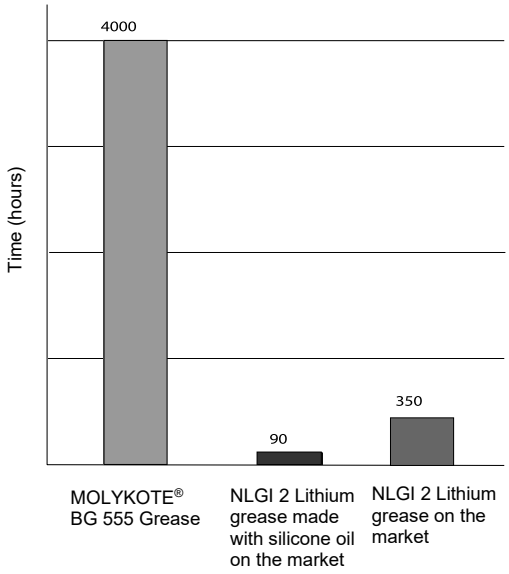
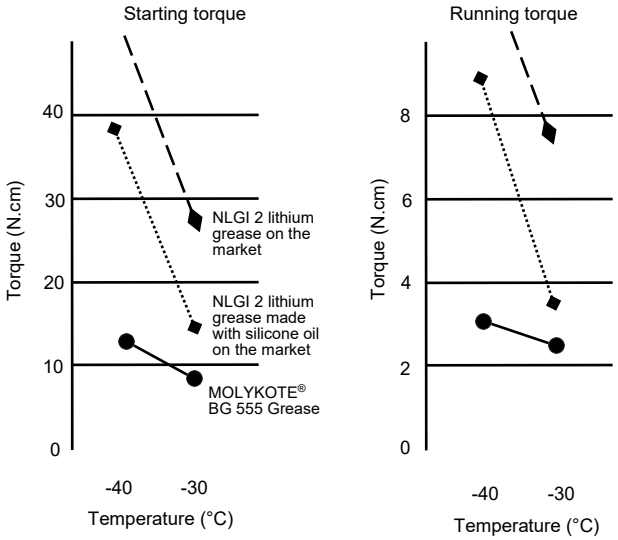


Figure 2: Low-temperature torque test, ASTM D1478-63.



Usable life and storage

When stored at or below 40°C (104°F) in the original unopened containers, this product has a usable life of 36 months from the date of production.

Packaging

This product is available in different standard container sizes as shown on **molykote.com**. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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